

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number  
**WO 2004/085654 A2**

(51) International Patent Classification<sup>7</sup>: C12N 15/63 (74) Agent: HARRISON GODDARD FOOTE, 31 St. Saviourgate, York YO1 8NQ (GB).

(21) International Application Number:  
PCT/GB2004/001374

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

(22) International Filing Date: 25 March 2004 (25.03.2004)

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
0307206.3 28 March 2003 (28.03.2003) GB

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TI, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): AXORDIA LIMITED [GB/GB]; Firth Court, Western Bank, Sheffield S10 2TN (GB).  
(72) Inventors; and  
(75) Inventors/Applicants (for US only): ANDREWS, Peter [GB/GB]; Axordia Limited, Firth Court, Western Bank, Sheffield S10 2TN (GB). GOKHALE, Paul [GB/GB]; Axordia Limited, Firth Court, Western Bank, Sheffield S10 2TN (GB). WALSH, Jim [GB/GB]; Axordia Limited, Firth Court, Western Bank, Sheffield S10 2TN (GB). MATIN, Maryam [GB/GB]; Axordia Limited, Firth Court, Western Bank, Sheffield S10 2TN (GB).

## Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

**WO 2004/085654 A2**

(54) Title: MODULATION OF CELL PHENOTYPE BY INHIBITORY RNA

(57) Abstract: We describe a method to inhibit cell division of hyperproliferative cells, typically cancer cells, by introducing inhibitory RNA (RNAi) into said cells to ablate mRNAs that encode polypeptides involved in cellular processes and including RNAi molecules and vectors including transcription cassettes encoding said RNAi molecules. By application of said RNAi molecules to cancers *in vivo* it is possible to effect a treatment whereby the cancer cells are killed or otherwise eliminated.